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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/578,693	05/26/2000	Masaya Yamanouchi	20-4710P	9841
2292	7590	01/12/2005	EXAMINER	
BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747			COOK, LISA V	
			ART UNIT	PAPER NUMBER
			1641	

DATE MAILED: 01/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/578,693

Applicant(s)

YAMANOUCI ET AL.

Examiner

Lisa V. Cook

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 14 October 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 2,4,6,9,14-19 and 21-24 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 2,4,6,9,14-19 and 21-24 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- 1) ☐ Certified copies of the priority documents have been received.
  - 2) ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - 3) ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

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## **DETAILED ACTION**

### ***Amendment Entry***

1. Applicant's response to the Office Action mailed 14 May 2004 is acknowledged (paper filed 10/14/04). Currently claims 2, 4, 6, 9, 14-19, and 21-24 are currently pending and under examination.

### ***Interview Request***

2. An interview was conducted with Applicant's representative on August 17, 2004 prior to the filing of the instant response (10/14/04). Examiner has taken every measure to try and conduct another interview before the mailing of the current action. However, in order to meet the administrative deadlines for the instant application, an additional interview was not permissible. Examiner apologizes for any inconvenience this may cause Applicant.

## **REJECTIONS MAINTAINED**

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

I. Claims 2, 4, 6, 16, 17, 18, 22, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gorski et al. (Clinical Chemistry, 43, No.1, January 1997, pages 193-195) in view of Maatman et al. (Biochem. J. 1992, 288, pages 285-290) and Simon et al. (The Journal of Biological Chemistry, 272(16) 4/18/97, 10652-10663).

Gorski et al. disclose a comparative study evaluating the increased concentration of fatty acid binding protein (FABP) concentrations in plasma samples of patients with chronic renal failure. Plasma FABP concentration was measured by a sensitive noncompetitive sandwich ELISA. PAGE 194 2<sup>nd</sup> column.

Plasma FABP concentration is shown to markedly increase in patients with chronic renal failure. Page 194, 3<sup>rd</sup> column. The findings suggest that the kidney plays a dominant role in the clearance of plasma FABP. Page 194 3<sup>rd</sup> column.

Gorski et al. differ from the instant invention in not specifically teaching the detection of liver-type fatty acid binding protein.

However, Maatman et al. identified the liver-type fatty acid binding protein utilized in the instant invention. Page 285, 1<sup>st</sup> column. This is supported by Applicants arguments (page 24 of the response filed 9/14/01 in paper #7). Maatmann et al. discloses liver-type fatty acid binding proteins and speculates that it is utilized in nephrotoxicity.

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While, Simon et al. teach that the liver fatty acid binding protein functions to suppress expression in the proximal nephron (kidney). See abstract and page 10655.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the liver-type fatty acid binding protein as taught by Maatmann et al., having proven function is the kidney (nephron) as taught by Simon et al. to detect the specific kidney diseases relating to FABP in the method of Gorski et al. because Maatman et al. taught that “the liver-type FABP binds various ligands and may be involved in the renal excretion of exogenous and endogenous metabolites. The liver-type FABP also binds some drugs and may in this way prevent nephrotoxicity”. Page 289, 2<sup>nd</sup> column 1<sup>st</sup> paragraph. While, Simon et al. demonstrated that the liver fatty acid binding protein [heptad repeat] mediate suppression in the stomach, liver, and kidney and represents a target for identifying transcription factors that regulate gene expression. See page 10662-1<sup>st</sup> column-last paragraph.

**II.** Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gorski et al. (Clinical Chemistry, 43, No.1, January 1997, pages 193-195) in view of Maatman et al. (Biochem. J. 1992, 288, pages 285-290) and Simon et al. (The Journal of Biological Chemistry, 272(16) 4/18/97, 10652-10663) and further in view of Kimura et al. (Journal of Biological Chemistry, 3/25/91, Vol.266., No.9., pages 5963-5972).

See discussion of Gorski et al. in view of Maatman et al. and Simon et al. as set forth above.

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Gorski et al. in view of Maatman et al. and Simon et al. differ from the instant invention in failing to teach that the liver-type FABP is found in the proximal tubule of the kidney and does not cross-react with a heart muscle-type fatty acid binding protein.

However, these characteristics of  $\alpha_{2U}$ -globulin were already known in the prior art. Specifically Kimura et al. disclose that fatty acid-binding proteins found in the kidney could be distinguished according to their primary structure and histologic distribution. Two specific FABPs weighing 14 and 15.5 kDa were found in male rat kidney cytosol. The 14 kDa compound was identified as heart FABP and localized in the cytoplasm of the epithelia of the kidney distal tubules. The 15.5 kDa compound was identified as a proteolytically modified form of  $\alpha_{2U}$ -globulin (alpha 2u-globulin) and localized in the endosomes or lysosomes of kidney proximal tubules.

Gorski et al. in view of Maatman et al. and Simon et al. and in further view of Kimura et al. are all analogous art because they are from the same field of endeavor, both inventions teach methods involving FABP detection.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the antibody which would not cross-react with a muscle-type fatty acid binding protein as taught by Kimura et al., to detect the specific kidney FABP in the method of Gorski et al. in view of Maatman et al. and Simon et al. because such antibodies as taught by Kimura et al. are well known in the art.

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A person of ordinary skill in the art would have had a reasonable expectation of success utilizing such antibody assays, because Kimura et al. had already taught that the kidney contained two different types of fatty acid binding proteins, one designated the heart-FABP and the other designated the kidney-FABP. (page 5964, Results).

One having ordinary skill in the art would have been motivated to distinguish between the two types by employing an antibody that would not cross react with the other type (heart-FABP/kidney distal tubules) in order to receive an accurate, more precise measure of the concentration of the FABP of interest (in this case kidney-FABP/ kidney proximal tubules).

**III.** Claims 19 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gorski et al. (Clinical Chemistry, 43, No.1, January 1997, pages 193-195) in view of Maatman et al. (Biochem. J. 1992, 288, pages 285-290) and Simon et al.(The Journal of Biological Chemistry, 272(16) 4/18/97, 10652-10663) and further in view of Galaske et al. (Pflugers Archives European Journal of Physiology, 1978, 375,3, 269-277-ABSTRACT ONLY).

Please see previous discussions of Gorski et al. in view of Maatman et al. and Simon et al.

Gorski et al. in view of Maatman et al. and Simon et al. differ from the instant invention in not teaching a detection system involving a chronic renal disease (anti-GMB-nephritis model) further monitoring specimen collection at various intervals.

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Galaske et al. disclosed the glomerular filtration and tubular uptake of plasma proteins in the acute heterologous phase of an anti-GMB nephritis model. Injections of anti-glomerular-basement membrane serum (anti-GMB-serum) were evaluated in tubular reabsorption and tubular flow at various times. See abstract.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a anti-GMB nephritis model as taught by Galaske et al., to detect kidney diseases via proteins in the method of Gorski et al. in view of Maatman et al. and Simon et al. because Galaske et al. disclose that such models existed allowing for protein detection in plasma and urine.

One of ordinary skill in the art would have been motivated to do this in order to detect renal disorders at the onset and follow the disease progression/regression.

IV. Claims 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gorski et al. (Clinical Chemistry, 43, No. 1, January 1997, pages 193-195) in view of Maatman et al. (Biochem. J. 1992, 288, pages 285-290) and Simon et al. (The Journal of Biological Chemistry, 272(16) 4/18/97, 10652-10663) and further in view of Zuk et al. (U.S. Patent #4,281,061).

The teachings of over Gorski et al. in view of Maatman et al. and Simon et al. are set forth above. Although the reference teaches reagents for examining kidney disease, the references fail to teach the assay as a kit.



However, Zuk et al. (4,281,061) teach that “as a matter of convenience the reagents [of an immunoassay] can be provided as kits, where the reagents are in predetermined ratios, so as to substantially optimize the sensitivity of the assay in the range of interest” (column 22, lines 63-66).

It would have been prima facie obvious to one of ordinary skill in the art at the time of applicant's invention to take the kidney disease detection assay as taught by over Gorski et al. in view of Maatman et al. and Simon et al. and format them into a kit because Zuk et al. teach that it is convenient to do so and one can enhance sensitivity of a method by providing reagents as a kit. Further, the reagents in a kit are available in pre-measured amounts, which eliminates the variability that can occur when performing the assay.

### ***Response to Arguments***

5. Applicant's arguments filed 10/14/04 have been fully considered but they are not persuasive.

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992).

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In this case, Applicant contends that Gorski et al. teach methods of measuring plasma levels of H-FABP in kidney/renal diseases. While, Maatman et al. and Simon merely speculate as to L-FABPs role in kidney/renal disorders. Therefore there is no motivation to combine Gorski et al., Maatman et al., and Simon et al. This argument was not found persuasive because Maatman et al. disclose that “Based on the RT-PCR and hybridization results, the content of the mRNAs of the liver and heart FABP types do not differ markedly in kidneys of male and female rats”. See page 289 1<sup>st</sup> column and figure 6. Therefore, one of ordinary skill in the art at the time of applicant’s invention would have been motivated to replace the H-FABP of Gorski et al. with the L-FABP taught by Maatman et al. and Simon et al. because the two types of FABP (heart and liver) were functional equivalents (do not differ markedly).

Also, the test for obviousness is not whether the features of one reference may be bodily incorporated into the other to produce the claimed subject matter but simply what the combination of references makes obvious to one of ordinary skill in the pertinent art. See, *In re Bent*, 52 CCPA 850, 144 USPQ 28, 1964; *In re Nievelt*, 179 USPQ 224 CCPA 1973.

Applicant argues that the examiner has applied an “obvious to try standard.” An “obvious to try” standard is deemed impermissible in two situations: 1) where the prior art gives no indication as to which of numerous parameters are critical, or give no indication as to which of many possible choices is likely to be successful; and 2) where the prior art gives only general guidance with respect to the form of the invention, but not how to achieve it in new areas of technology or in fields of experimentation which are only seemingly promising. *In re O’Farrell*, 853 F.2d 894, 7 USPQ 2d 1673, 1681 (Fed Cir 1988).

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Because Maatman et al. give specific information regarding the similarities of H-FABP and L-FABP, the rejections are not mere “obvious to try” but the obvious use of functional equivalents. See page 289 1<sup>st</sup> column and figure 6.

Applicants contend that Gorski et al. teaches away from the use of FABP as a marker for kidney disease. However, Gorski et al. disclose that their data was the first to show that plasma FABP concentration is markedly increased in patients with chronic renal failure. . . . See page 194 3<sup>rd</sup> column 2<sup>nd</sup> paragraph.

In response to the argument that Gorski et al. is focused on heart-type FABP as a marker for myocardial infarction, further teaching away from the instant invention because heart type FABP and liver-type FABP are different structures. This argument was carefully considered but not found persuasive because Gorski et al. is cited in combination with two other references, which must be considered in combination. Although Gorski et al. do not specifically detect liver-type FABP the structure is taught to be relevant in kidney disorders in the references of Maatman et al. and Simon et al.

While a deficiency in a reference may overcome a rejection under 35 USC 103, a reference is not overcome by pointing out that a reference lacks a teaching for which other references are relied. In re Lyons, 364 F2d 1005, 150 USPQ 741, 746 (CCPA 1966).

Gorski et al. further teaches not only myocardial infarction but is also concerned with chronic renal failure. This is supported on page 194, 1<sup>st</sup> paragraph “we studied plasma FABP and myoglobin in patients with chronic renal failure” and page 194 3<sup>rd</sup> paragraph “The present data are the first to show plasma FABP concentration is markedly increased in patients with chronic renal failure and normal heart function, similar to that found for myoglobin.”

“These findings suggest that the kidney plays a more dominant role in the clearance of plasma FABP than of myoglobin.”

Attorney's arguments of unexpected results cannot take the place of evidence in the record. In re DeBlauwe, 736 F2d 699, 705, 222 USPQ 191, 196 (Fed Cir 1984). Specifically, Applicant argues that the clinical results of the present invention in patients with chronic renal disease showed only L-FABP as a statistically significant marker for renal disease (Kamijo et al. - Table III). However, the reference of Gorski et al. taught that plasma FABP concentration is markedly increased in patients with chronic renal failure and normal heart function. See page 194 3<sup>rd</sup> column 2<sup>nd</sup> paragraph. The similarity between H-FABP and L-FABP is taught by Maatman et al. See page 289 1<sup>st</sup> column and figure 6. Thus elevation of H-FABP or its functional equivalent L-FABP in renal disease is obvious and supports the clinical findings of Kamijo et al.

Applicant argues that Maatman et al. merely speculate that L-FABP may prevent nephrotoxicity, however the function of L-FABP does not shed light on the normal or abnormal levels of FABP in a human specimen. This argument was carefully considered but not found persuasive because Maatman et al. was cited in combination with Gorski et al. Maatman et al. disclose the relevance of L-FABP in the liver (function) and teach the similarities between L-FABP and H-FABP. Gorski et al. teach FABP levels in normal and abnormal human specimens having renal disease. See Gorski et al. page 194, 1<sup>st</sup> and 3<sup>rd</sup> columns.

Applicant argues that Simon et al. do not make any connection between an increased in L-FABP protein and kidney disease. This argument was carefully considered but not found persuasive because Simon et al. was merely cited to further support a function of L-FABP in the kidney. See abstract and page 10655. Where, Simon et al. teach that the liver fatty acid binding protein functions to suppress expression in the proximal nephron (kidney). Simon et al. are cited in combination with in combination with Gorski et al. Gorski et al. teach increased levels of FABP levels renal disease (kidney). See Gorski et al. page 194, 1<sup>st</sup> and 3<sup>rd</sup> columns. While, Maatman et al. disclose the relevance of L-FABP in the liver (function) and teach the similarities between L-FABP and H-FABP. While a deficiency in a reference may overcome a rejection under 35 USC 103, a reference is not overcome by pointing out that a reference lacks a teaching for which other references are relied. In re Lyons, 364 F2d 1005, 150 USPQ 741, 746 (CCPA 1966).

Applicant contends that Gorski et al. only use H-FABP as a marker for myocardial infarction and do not suggest FABP as a marker for any other disease namely kidney disease. This argument was carefully considered but not found persuasive because Gorski et al. discloses plasma FABP increase in patients with chronic renal failure and normal heart function. See page 194 3<sup>rd</sup> column 2<sup>nd</sup> paragraph.

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Applicant contends that Gorski et al. although Gorski et al. show that plasma FABP (H-FABP) is increased in patients with renal failure, this was only done to prevent an erroneous interpretation in the diagnosis of myocardial infarction in patients with renal insufficiency. This argument was carefully considered but not found persuasive because there is no requirement that the prior art must suggest that the claimed product (FABP) will have the same or similar utility as that discovered by applicant in order to support a legal conclusion of obviousness. *In re Dillon*, 919 F2d 688, 696, 16 USPQ 2d 1897, 1904 (Fed Cir 1990) (in banc), cert. denied, 111 S. Ct. 1682 (1991). An obvious rejection is proper so long as the prior art suggests a reason or provides motivation; even where the reason or motivation is different from that discovered by applicant.

Applicant contends that Gorski et al. teach away from the detection of other FABPs (like L-FABP) because the clearance of H-FABP from the kidneys could produce a false diagnosis of myocardial infarction. This argument was carefully considered but not found persuasive because Gorski et al. showed elevation of FABP in patients with renal disease irrespective of their heart condition (myocardial infarction) and concluded that the FABP value was more affected by renal (kidney) insufficiency than that of myoglobin. See page 194. While, Maatman et al. disclose the similarities between L-FABP and H-FABP. Therefore one of ordinary skill would have measured H-FABP or L-FABP plasma concentration above normal as a measure of chronic renal failure (kidney disease).

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Applicant argues that no correlation between the known markers for kidney disease (creatinine and urea) and FABP was provided therefore, the skilled artisan would not be motivated to measure FABPs in kidney disease. This argument was carefully considered but not found persuasive because Gorski et al. show correlated increase over controls of measured FABP, creatinine, and urea in patients with chronic renal failure. See Table 1 on page 194.

11. For reasons aforementioned, no claims are allowed.

12. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

***Remarks***

13. Prior art made of record and not relied upon is considered pertinent to the applicant's disclosure: Nagasawa (Japanese Med. Res. Found. Publ. 1979, 7 (Glomerulonephritis), pages 39-51)- **ABSTRACT ONLY** teach that the binding distribution of Con A is similar anti-nephritogenic glycoprotein antibody.

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14. Papers related to this application may be submitted to Group 1600 by facsimile transmission. Papers should be faxed to Group 1600 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform to the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Group 1641 – Central Fax number is (571) 273-8300, which is able to receive transmissions 24 hours/day, 7 days/week. In the event Applicant would like to fax an unofficial communication, the Examiner should be contacted for the appropriate Right Fax number.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lisa V. Cook whose telephone number is (571) 272-0816. The examiner can normally be reached on Monday - Friday from 7:00 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le, can be reached on (571) 272-0823.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group 1600 whose telephone number is (571) 272-1600.

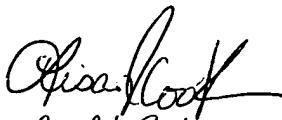
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.




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Status information for unpublished applications is available through Private PAIR only.

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